(19) World Intellectual Property Organization International Bureau



| COLOR CONTINUE | COLOR C

(43) International Publication Date 11 August 2005 (11.08.2005)

PCT

(10) International Publication Number WO 2005/073194 A3

(51) International Patent Classification⁷: C07D 215/18, A61K 31/47

(21) International Application Number:

PCT/HR2005/000005

- (22) International Filing Date: 19 January 2005 (19.01.2005)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/540,307

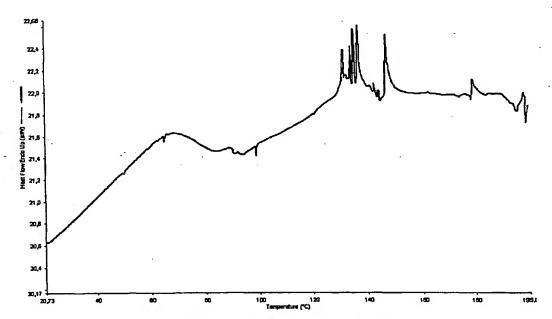
28 January 2004 (28.01.2004) US

- (71) Applicant (for all designated States except US): PLIVA-ISTRAZIVANJE I RAZVOJ D.O.O.; Prilaz baruna Filipovica 29, 10000 Zagreb (HR).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): MESTROVIC, Ernest [HR/HR]; Ivana Grande 41, 43000 Bjelovar (HR). HORVAT, Michaela [HR/HR]; Selcinska 28, 10360 Sesvete (HR). DEVCIC, Maja [HR/HR]; Pavla Radica 110, 34000 Pozega (HR). AVDAGIC, Amir [HR/HR]; Gustava Krkleca 24, 10000 Zagreb (HR). CICCIC, Dominik [HR/HR]; Josipa Brunsmida 1, 10000 Zagreb

- (HR). MARINKOVIC, Marina [HR/HR]; Ulica orhideja 5, 10360 Sesvete (HR).
- (74) Common Representative: PRAMBERGER, Karin; Pliva Croatia, Generics IP, Ulica grada Vukovara 49, 10000 Zagreb (HR).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: SOLID FORMS OF MONTELUKAST ACID



DSC thermogram of amorphous form II of montelukast acid

(57) Abstract: The present invention relates to a new crystalline form and new amorphous forms of 1-(((1(R)-(3-(2-(7-chloro-2-quinolinyl)-phenyl)-3-(2-(1-hydroxy-1-methylethyl)phenyl)propyl)thio)methyl) cyclopropane acetic acid ("montelukast acid"), to a process for their preparation, to pharmaceutical formulations containing them, and to a method of treatment using the same.

15/073104 A3

WO 2005/073194 A3



Published:

with international search report

(88) Date of publication of the international search report: 4 May 2006

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.